

## TECHNICAL DATA SHEET

# Recombinant Human Vimentin (Carrier-Free)

Catalog Number: 21-9061

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

#### CONTENTS

Recombinant Human Vimentin (Carrier-Free)

#### DESCRIPTION

Vimentin is a class III intermediate filament protein predominantly found in cells of mesenchymal origins, such as vascular endothelium and blood cells, where it functions as a major cytoskeletal component. Due to its importance and abundance in the cytoskeletal structure of mesenchymally-derived cells, vimentin is frequently used as a developmental marker within cells of mesenchymal origin or cells undergoing epithelial-mesenchymal transition, which can occur during both normal and metastatic growth.

#### MOLECULAR MASS

Recombinant Human Vimentin is a 54.3 kDa protein consisting of 471 amino acid residues, including a 6-residue C-terminal His-Tag.

#### AMINO ACID SEQUENCE

STRSVSSSSY RRMFGGPGTA SRPSSRSYV TTSTRTYSLG SALRPSTSR S LYASSPGGVY ATRSSAVRLR SSVPGVRLQ DSVDFSLADA INTEFKNTRT NEKVELQELN DRFANYIDKV RFLEQQNKIL LAELEQLKGQ GKSRLGDLYE EEMRELRQV DQLTNDKARV EVERDNLAED IMRLREKLQE EMLQREEAEN TLQSFQRQDQVD NASLARLDLE RKVESLQEEI AFLKKLHEEE IQELQAQIQE QHVQIDVDVS KPDLTAALRD VRQQYESVAA KNLQEAEEWY KSKFADLSEA ANRNNDALRQ AKQESTEYRR QVQSLTCEVD ALKGTNESLE RQMREMEENF AVEAANYQDT IGRQLDEIQN MKEEMARHLR EYQDLLNVKM ALDIEIATYR KLEGEESRI SLPLPNFSSL NLRETNLDSL PLVDTHSKRT LLIKTVETRD GQVINETSQH HDDLEHHHHH H

#### SOURCE

E.coli

#### APPLICATIONS

Bioassay

#### PURITY

95 %

#### STORAGE

-20°C

#### PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

#### ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

#### AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

#### CROSS REACTIVITY

#### BIOACTIVITY

Data not available at this time.

#### RESEARCH AREAS

Wound Healing, Apoptosis

#### RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

#### REFERENCES

Tomasini-Johansson B, O'Brien C, Larson-Osborne A, Toraason I, Hullett D, Plum L, DeLuca H, Sollinger H. *Exp Clin Transplant*. 2017 Dec;15(6):641-647.  
 Fanelli M, Camperchioli A, Petrella L, Petrillo M, Baranello C, Baccaro P, Paolillo C, Capoluongo E, Scambia G. *Int J Biol Markers*. 2017 Dec 5:0. doi: 10.5301/ijbm.5000264.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.